



HAITIAN
INTERNATIONAL

NEWS FROM HAITIAN INTERNATIONAL

ADVANTAGE

Issue 27

5

THE NEXT GENERATION

SMART FLEXIBLE SOLUTIONS

TECHNOLOGY TO THE POINT

 **Chinaplas® 2023**
国际橡塑展

VISIT US
12G31

CONTENT

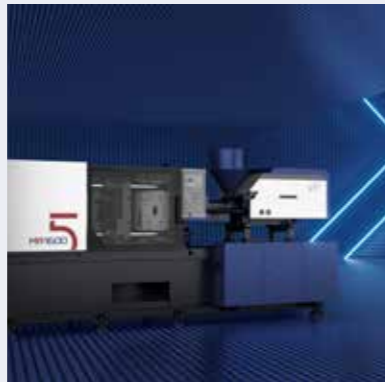
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Outlook 2023:

Digital transformation, sustainability and advancing climate change are the key issues of the day. We ask Haitian management what solutions are being worked on. The new machine generation 5 promises initial solutions in terms of energy efficiency and smart features.

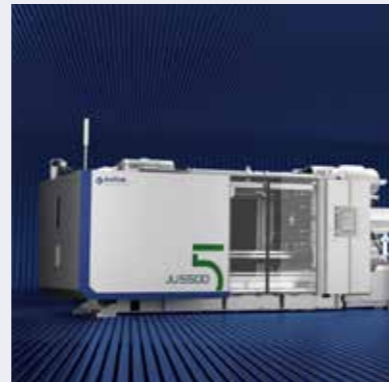
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World premiere: MA5 Series

The 5th technology generation of the world's best-selling injection molding machine impresses with intelligent innovations, significant energy and process optimizations for a maximum flexibility to plastics processing production lines.

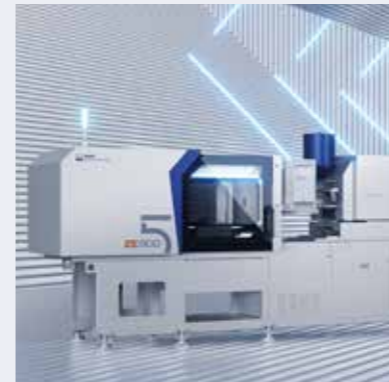
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World premiere: JU5 Series

The 5th technology generation of the space- and energy-saving two-platen series provides intelligent and innovative analysis and control systems for detailed performance and process optimization characterize the performance.

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World premiere: VE/ZE5 Series

20 years of R&D and experience in building electric Zhaifir machines results in the fifth generation intelligent technology. The comprehensive upgrade in hardware and software offers extremely high customer benefits.

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UPCOMING EVENTS

CHINA

2023-05-31 - 2023-06-02

INTERNATIONAL POWER METALLURGY EXHIBITION, Shanghai

2023-11-27 - 2023-11-30

SHENZHEN DMP, Shenzhen

ASIA

2023-05-13 - 2023-05-13

PLASTIC & RUBBER THAILAND 2023

2023-05-17 - 2023-05-20

PLASPACK Vietnam

2023-06-21 - 2023-06-24

INTERPLAS THAILAND 2023

2023-11-15 - 2023-11-18

PLASTIC RUBBER INDONESIA

2023-11-28 - 2023-12-02

IPF JAPAN2023

2023-12-07 - 2023-12-11

PLASTIVISION INDIA 2023

EUROPE

2023-05-09 - 2023-05-11

KUTENO, Rheda-Wiedenbrück, Germany

2023-05-16 - 2023-05-19

INTERNATIONAL TECHNICAL FAIR, Belgrad, Serbia

2023-05-23 - 2023-05-26

PLASTPOL, Kielce, Poland

2023-09-05 - 2023-09-08

PLAST MILANO, Milano, Italy

2023-09-20 - 2023-09-21

KUNSTSTOFFENBEURS, 's-Hertogenbosch, Netherlands

2023-09-26 - 2023-09-28

INTERPLAS, Birmingham, UK

2023-10-17 - 2023-10-21

FAKUMA, Friedrichshafen, Germany

NORTH AMERICA

2023-05-09 - 2023-05-11

PLAST-EX 2023 Toronto, Canada

PUBLISHING DETAILS

Publisher

Haitian International Holdings Ltd.
Unit 1105 Level 11
Metroplaza Tower 2
223 Hing Fong RD Kwai Fong N.T, China
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HAITIAN WORLDWIDE

EFFICIENT COMMUNICATION
SHORT DELIVERY ROUTES
HIGH AVAILABILITY



HT HAITIAN

Think global, care local

Haitian International has redefined availability and delivery reliability.

Speed and reliability are core values of the Haitian International Group brand. The global infrastructure network of our own sites and logistics and service partners plays a key role in this.

Congestion at ports, disrupted supply chains – uncertain logistics parameters around the globe. Triggered by the pandemic and exacerbated by political tensions, the quality of supply has not exactly taken a turn for the better. With its “2+6 strategy” and developed synergies within the Group, Haitian International began to rethink logistics years ago and created alternative structures.

2+6 = efficient communication, short delivery routes, high availability

The concept is working. The “2+6 strategy” marks the pillars of the global presence of the world market leader: 6 regional headquarters (Singapore, Japan, India, Germany, Turkey, Mexico) in important sales markets where machines are built and/or

assembled, as well as 2 headquarters in Ningbo, East China and Shunde, South China, where development, production and manufacturing are carried out on an even larger scale. The heart of this decentralized Manufacturing Power is a regionalized manufacturing platform, developed across the Group under the Haitian Machinery brand. More importantly, the regional headquarters will enable the Group to create a more efficient platform for communicating with its local customers and to respond quickly to customized solutions.

The network of all production sites, application centers and service bases in 60 countries around the world succeeds in providing customers with optimum supply and support throughout the entire product life cycle. From initial delivery and on-site customizing to product experience, technical application diversity and support.



High synergies within the Haitian Group

This is possible because Haitian has evolved from a dedicated machine manufacturer to a partner and system provider for intelligent manufacturing in more than 50 years on the market. Because basic principles such as material and process technologies are given priority in the in-house research institute, and because creative platforms bundle the interdisciplinary exchange within the Haitian Group. The goal has always been to strengthen the company's own innovative power and the sustainable development of the divisions.

Today, the Group can offer processors a wide range of solutions – from a single source. In the manufacture of injection molding machines, automation, CNC machines, die casting machines and drive systems. But also in the planning and design of intelligent production lines, up to the complete smart factory.

“We have built an extensive platform within the group to provide innovative power to support the sustainable development of each industry.”



Zhang Jianming, visionary and chairman of the entire Haitian Group at the opening of the regional site in Singapore

Outlook 2023

Questions to the management

Mr. Zhang Bin, the biggest challenges in the coming years are the digital transformation in business and efficient strategies against climate change. What is the market leader's strategy?

We see it as our task to take the lead in shaping both future fields, together with the other divisions of the Haitian Group. This is already reflected in many areas of the Group. Our decades of experience in mechanical engineering are of great benefit to us, as are the high synergy effects within the Haitian Group and, last but not least, our extremely innovative and inquisitive team.

The new Generation 5 machine is an important component, an important step on this path, but also only one part. Never before have our machines been so energy efficient, so efficient, so intelligent. We have focused on these key areas and consistently developed the potential of Generation 3.

In parallel, we have scrutinized the footprints of our own production and changed many things in the direction of sustainability. From installing large photovoltaic systems on our hall roofs and our waste management system to switching to internal e-mobility.

Mr. Zhang Jianfeng, what are the most important product strategy issues for Haitian International this year?

First and foremost, the introduction of the G5 technology generation and the constant updating of our technical platform, for sustainable development.

Related to this, providing diversified solutions for different customer needs, from low-level to high-end markets. And finally, we want to develop further customized solutions, for different application areas, markets and requirements. That's where we continue to place great emphasis on energy saving and efficiency; these will remain topical issues. In this respect, we will also deepen our commitment to low carbon certification and continue our cooperation with the China Electronic Energy Saving Technology Association to provide CO2 certifications.

Mr. Zhang Jianfeng, with Haitian Drive Systems in the Group, you have a highly innovative partner at your side in matters of drive technology and energy efficiency. How does this benefit the customer?

The close partnership with Haitian Drive ensures our customers the optimum performance of our injection molding machines, through customized drive and motor systems. Haitian Drive also supports us in technical breakthroughs with customized innovations to meet new market requirements or "green" objectives. But the short, stable supply chain of our motors from Haitian Drive should also not be underestimated and is of great value to our customers.

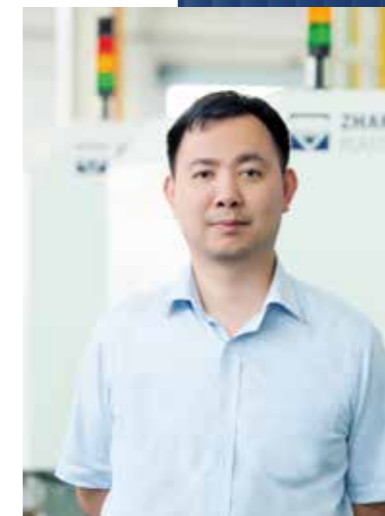
Mr. Zhang Bin, in Haitian Smart Solutions, you have direct access to a center of excellence in digital transformation. A decisive advantage with a view to the future?

Absolutely. In partnership with Haitian Smart Solutions, we are able to offer turnkey solutions for our customers, and very efficient and cost-attractive solutions at that. With deep integration. All in all, very flexible and economical solutions that give the customer maximum possibilities for future expansion. And in doing so, we can also respond very efficiently to customer-specific needs, whether it's changing production lines or opening up new markets. Ultimately, Digital Transformation is an all-encompassing topic, and by working closely with Haitian Smart Solutions, digitalization at Haitian International - as in all other divisions - is accelerated many times over.



Mr. Zhang Jianfeng,
Deputy CEO of Haitian Group,
Group/Executive Director
of Haitian International,
CEO of Haitian Plastics Machinery

"We continue to place great emphasis on energy saving and efficiency."



Mr. Zhang Bin,
Deputy CEO of Haitian Group, Deputy
CEO of Haitian Plastics Machinery Group

"The intelligent functions we have developed are "in line" with the development of our G5 machines."

SMART FLEXIBLE SOLUTIONS TECHNOLOGY TO THE POINT

Mr. Zhang Jianfeng, what new highlights characterize Generation 5?

Energy savings of up to 20% or more, overall resource conservation, compact machine designs, less space requirements, and just a lot of intelligence functions that bring various benefits in application.

Mr. Fu, Haitian International has already filed more than 150 patents for developments around the new generation. Which development are you most proud of?

We have dramatically reduced the energy consumption of our machines, but at the same time we have been able to further improve the precision and efficiency of the machines. The result is tangible customer benefits: stable production runs, with even less energy consumption.

Electric charging was already available as an option in Generation 3. What changes led to this incredibly high energy saving of an additional 20%+?

The difference is that the previous solution required a decision on the customer side, they had to invest some money for preforming. With the G5 machines, by working with Haitian Drive, we were able to significantly improve the energy savings of the electric charging unit. I don't want to go into technical details at all, the important thing is that this energy advantage now comes as standard, that we pass it on as part of the standard equipment. So customers don't have to invest any extra money to achieve this kind of energy-saving result. Another advantage for their competitive-

ness, but also for the sustainable development of the market.

Mr. Zhang Jianfeng, the hardware of the machines are hardly changed. Have the possibilities in the mechanical design of an injection molding machine already been exhausted, or are there still groundbreaking things to be expected here?

Changes to the mechanical structure may not be that noticeable, yet our team has worked hard to optimize all mechanical structures and parts down to the last detail. This includes the topological structure, the use of new materials and new processes that result in significant optimization of the machine's performance, such as increasing the screw speed, etc.

But rest assured that there will be some more breakthrough changes regarding injection molding machine design, we are already working on them.

Mr. Zhang Bin, are significant developments also expected in software design?

"It can be assumed that there will be. With the continuous improvements in control technologies as well as smart technologies, the developments at the software level will be more intense, and the changes more visible. With the increase in performance of control systems, communication technologies and cloud computing technologies, we expect huge development opportunities for injection molding machine software. For example, the introduction of dual-core technology in electric series motors. Nevertheless, a software technology is always closely related to the mechanical structure, in this respect, the improvement of the

machine structure can also support the development of the software."

Mr. Zhang Jianfeng, injection molding machines are getting smarter, and not just at Haitian. What are you doing differently from your peers?

"Basically, (almost) all competitors are working on intelligent functions. Functions that are slightly different, of course, because each company takes a different approach. The intelligent functions we have developed are "in line" with the development of our G5 machines. For example, Energy Management 2.0, where we have dispensed with conventional sensor technology and instead created a customized mathematical model. Everything in-house and in close coordination with our sister divisions. And our solution is offered as a standard solution at no additional cost to the customer."

Mr. Zhang Bin, why did HTI choose to offer most of the smart features as standard?

"Our principle still applies: We want to give our customers the greatest possible competitive advantages. Without imposing additional costs on them. Just Technology to the Point.

TECHNOLOGY TO THE POINT



"Dramatically energy savings plus increased precision and efficiency is a true quantum leap."

Mr. Fu Nanhong,
CTO of Haitian International



The new generation of MA and JU will be tested extensively before they are presented to the public for the first time at Chinaplas 2023.





SMART FLEXIBLE SOLUTIONS TECHNOLOGY TO THE POINT

WELCOME TO THE 5TH GENERATION

The ideal image of the future oriented plastics machinery industry is about combining quality and efficiency through digital intelligence to create sustainable solutions. Haitian International is working tirelessly to meet customers' needs by continuously improving its core technology platform and driving innovation at the highest level. The fifth generation of machine technology paves the way to a new stage of development in intelligent manufacturing.

smart

SMART TECHNOLOGY

On the field of intelligent technology, we never stop moving forward. Using AI algorithms and sensing technology, we achieve intelligent optimization of production processes, giving our machines self-awareness, self-adaptation, self-decision-making, and self-reconstruction capabilities.

Our new five-generation machine features a multitude of smart functions, such as smart energy management 2.0, smart mold opening and closing 2.0, smart lubrication, and smart diagnosis and support. Through our many years of experience and intelligent innovations, we are working to further reduce our customers' operating costs and thus increase their production efficiency.

flexible

FLEXIBLE INTEGRATION

Focusing on the development of new generation technologies, our intelligent injection molding machine is equipped with flexible open integration functions as standard, supporting diversified open interface, and achieving efficient interconnection with peripheral devices, automation units, etc., building a smart ecosystem.

We flexibly integrate the upstream and downstream data of the industrial chain into the manufacturing ecosystem to provide enterprises with all-around intelligent empowerment in terms of equipment status, production plan, process control, quality traceability, full life cycle management, energy consumption, decision analysis, etc.

solutions

SUSTAINABILITY

As one of the market leaders, Haitian International will prioritize fulfilling social responsibility, protecting the environment, and achieving resource conservation through research and development. We continuously develop energy-saving and consumption-reduction technologies, promote energy-saving device upgrading, reduce carbon emissions, and provide technological innovation and efficient solutions for degradable and recyclable materials.

We continue to be customer-centric, providing application-oriented solutions, providing access to the application of innovative products, empowering sustainable development with economic and environmental benefits, and "forming" a green future.



MA5

HAITIAN
PLASTICS MACHINERY

The bestseller with XXL upgrade. The face of the new economy.

The 5th technology generation of the world's best-selling injection molding machine impresses with intelligent innovations, significant energy and process optimizations. Thanks to numerous new features and high system compatibility for open

integration, it brings maximum flexibility to plastics processing production lines. Initially a stand-alone machine - today a smart solution with a system: the Haitian MA5.

20-40% energy savings with electric charging as standard



More economical than ever before

Energy

Electric pre-molding as standard. Energy-saving insulation of the plasticizing unit. Energy savings of up to 20% for the entire cycle.

Efficiency

Parallel function for faster cycles. Electric drive for more precise metering.

Process

Efficient oil temperature control with energy-saving water valve and independent circulation and filter system as standard. Greater stability and better control for the entire MA5 series.

smart

flexible

solutions

More intelligent than ever before

HT Clamp 2.0

Intelligent opening and closing 2.0 in the standard. Self-learning algorithm for precise mold movement.

HT Energy 2.0

Intelligent energy management 2.0 in standard. Refinement of energy consumption display and management. Establishment of an energy saving ecosystem.

HT Lubrication

Intelligent lubrication in the standard. Multi-data algorithm for intelligent lubrication control and intelligent lubrication parameter adjustment.

HT Service & Maintenance

Intelligent diagnosis and help. 2D code alarm and online help.



HT Control

New control panel, new UI design, large screen display. Better usability and interaction between operator and MA5 Series.

Faster than ever before

High-Drive Servo System

New High-Drive servo system (from Haitian Drive Systems). Even faster response times, even more dynamic.

Control technology

Latest, fully digital power control with intelligent switching mode. Perfect for integration into smart production lines or MES environments.

More powerful than ever before

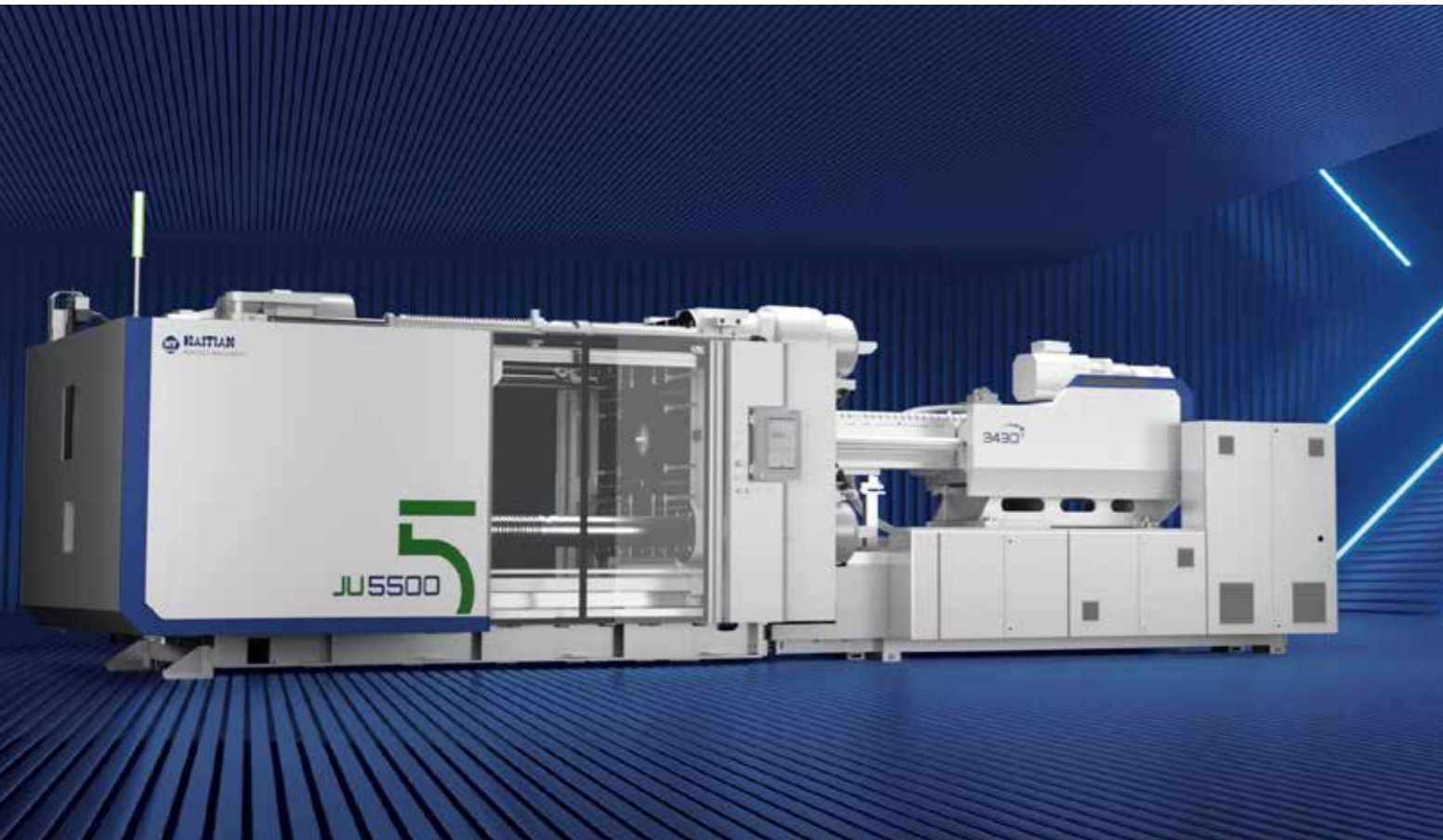
Plasticizing unit

Completely redesigned plasticizing unit. Now with twice the wear resistance of many components.

Material spectrum

Significantly improved plasticizing performance pushes the limits of what was previously possible. The MA5 Series is ready for new materials.





JU5

HAITIAN
PLASTICS MACHINERY

Pioneer of two-plate technology. Pacemaker of the automotive industry.

The 5th technology generation of the space-saving Haitian Jupiter Series combines more than 20 years of experience in the research & development of two-platen technologies. New highlights in energy efficiency and dynamics as well as inno-

vative analysis and control systems for detailed performance and process optimization characterize the performance of the Haitian JU5. Created to transform acute problems into sustainable solutions.



More economical than ever before

Energy

Electric pre-molding as standard. Energy-saving insulation of the plasticizing unit.

Efficiency

Parallel function for faster cycles. Electric drive for more precise metering. Efficient oil temperature control with energy-saving water valve and independent circulation and filter system as standard.

Dynamics

Latest high-drive servo system for even faster response times and even more dynamics. Increased stability and better control for the entire JU5 Series.

smart

flexible

solutions

Smarter than ever before

HT Clamp 2.0

Intelligent opening and closing 2.0 as standard. Self-learning algorithm for precise mold movement.

HT Energy 2.0

Intelligent energy management 2.0 in standard. Refinement of energy consumption display and management. Building an energy saving ecosystem.

HT Insight

Trouble Shooter with ETHERCAT technology. Fast troubleshooting to reduce costly downtime.

HT Control

Powerful control system from KEBA as standard. New control panel, new UI design, large screen display. Better usability and interaction between operator and MA5 series.



More compact than ever before

Footprint

Up to 10% less floor space required. Especially for the medium and large clamp force classes. Less production and operating space required.

Mold room

Large mold space with good accessibility from all sides. Ideal for large dimensions/cavities and complex geometries.

Scalability

Improved scalability of the machine layout. More free space due to optimized selection of automation options.

Stronger than ever before

Robustness

The plasticizing unit has been completely redesigned, and the wear resistance of the plasticizing parts has been doubled.

Stability

The entire machine runs faster and more smoothly. The drying cycle reaches the international top level.

Decarbonization

Improved plasticizing has pushed the limits of what was previously possible in materials processing – in favor of “green” materials. The new JU5 Series: carbon pioneer driving green values.

Power control

Latest J6 digital control technology with intelligent switching mode. Perfect for integration into smart production lines or MES environments.



VE5 ZE5

ZHAFIR
PLASTICS MACHINERY

The smart power of the electric future.

Smarter, more precise, faster: Electric injection molding has never been as effective and forward-looking as Zhafir's 5th technology generation. Whether it's the fully electric Venus Series - now also up to 13,800 kN - or the Zeres Series

with integrated servo hydraulics: the comprehensive upgrade package has extremely extended and increased the customer benefits of both electric series. The software upgrade alone offers a host of new, intelligent functions.

More precise than ever before

- Improved drive performance and control accuracy to handle highly complex working conditions with ease.
- Injection speed repeatability of up to 0.01%.
- Reduced injection acceleration and deceleration bandwidth by up to 60%.

Faster than ever before

- Higher opening and closing speeds of up to 20%.
- Servo control loop now at 4x speed.
- Increased ejection speed: 400 mm/s.

smart

flexible

solutions

Smarter than ever before

HT Energy 2.0

Intelligent energy management 2.0 as standard. Refinement of energy consumption display and management. Building an energy saving ecosystem.

HT Clamp 2.0

Intelligent opening and closing 2.0 in standard. Self-learning algorithm for precise mold movement.

Intelligent configuration of the actual clamping force, individually according to molded part characteristics. Automatic determination of the required minimum clamping force significantly reduces clamping force, lowers energy consumption and maximizes mold protection.

Extensive upgrade of the control system

Drive

Complete upgrade of drive performance through more versatile EtherCat communication.

Control

The control system has been upgraded with a powerful dual-core processor that, together with the large touchscreen, doubles operating speed.

Flexible

Free Programming 2.0 in Forming. Easily adapt the high-precision and stable solution to the flexible changes of the process.

Connectivity Plus

Intelligent data interface, based on OPC-UA and Euromap 77, 82 for barrier-free data exchange and seamless integration into smart manufacturing environments.

Usability

Based on the new UI design, the human-machine interface is clear and transparent, providing an intuitive and pleasant working experience.

HT Protect

Even more sensitive than the 3rd generation. Even faster response time to minimal load deviations during the closing process.

HT Inject

Intelligent adjustment and process optimization during injection with regard to different modes



EXHIBITS AT A GLANCE

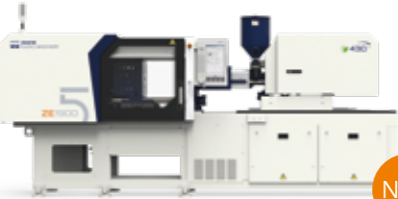


NEW

VE1500V-300h
World premiere: fully electric solution with medical package
The medical market is exceptional in every respect, and it is changing rapidly. Reliability and consistency are extremely important: Maximum possible efficiency and tailor-made quality are the top priorities. The fully electric VE Series produces provides clean and high-quality precision molding.



Application: Heparin cap
Part weight:.. 0.64g
Material: MABS
Cavities: 24
Cycle time: .. 17s
Specials:Clean room solutions

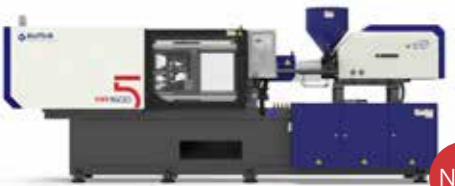


NEW

ZE1900V-640
World premiere: electric solution with tandem mold
Integrated hydraulics (optimal for molds with core pulls), constant injection up to 500 mm/s, short dry cycle times. Equipped with T-Mold and In-Mold Compression technology for highest efficiency by reducing mold pressure and improving pressure holding capacity.



Application: 14mm/10mm thick-walled convex lens
Part weight: 14.3g+13g
Material: PMMA
Cavities: 4+4
Cycle time: ...150s
Specials:In-mold compression technology

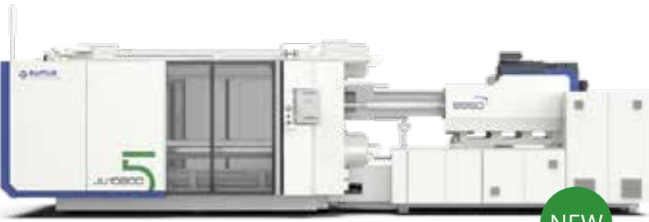


NEW

MA1200V/400
World premiere: bestseller servo-hydraulic solution
Sustainable solutions in the field of alternative materials are in demand as never before. The new generation of machines is ready for the use of recyclates of all kinds. In cooperation with Haitian Smart Solution and Haitian Laser Machinery we show a manufacturing cell with downstream assembly by using 100% recyclates from re-mall.



Application: Wireless charging station
Part weight: 31g+18g
Material: RABS
Cavities: 1+1
Cycle time: .. 42s
Specials: Automation by Haitian Smart Solutions, Recycled materials



NEW

JU10800V/8950
World premiere: space saving two-platen solution
In terms of its complexity, the automotive industry is probably the market with the broadest range of applications. Given this diversity of parts and production, T1 suppliers and their network are under increasing pressure. Efficiency and cost control are top priorities. The JU5 Series is compact, robust, reliable and offers enough clearance for complex assemblies. Supported by Flex-Flow technology from Oerlikon HRSflow, the compact and robust JU5 can produce three parts in different sizes and get ideal quality for automotive parts in a reliable and efficient way.



Application: Automobile door panel, integrated parts
Part weight: 607g+348g+55g
Material: PP
Cavities: 1+1+1
Cycle time: .. 56s
Specials: Automatic cut sprue



In 2022 more than **7,200** engaged employees worldwide generated **12.3 B**IO RMB

Multiple ISO certifications

Awarded 'BB' ESG Rating from MSCI and Bronze Sustainability Rating from EcoVadis*

Awarded with „Low-Carbon Product Supplier“

Over **36,000** sold machines in 2022. 98 % with energy saving and clean technology

We provide apartments with competitive rental or purchasing cost for nearly **6,300** families in our company

25 mkWh of solar power systems was installed in Q3 2022

460 MIO RMB total donations for social projects

We care

The green guiding principle at Haitian.

Haitian International's ESG Report 2022 had already announced it, and now implementation is in operation: one of the largest production facilities, the 160,000 sqm Tongtu Road plant on China's east coast, is becoming a Green Energy Lighthouse Project being equipped with modern photovoltaics.

The aim is once again to optimize energy management within the company. The installation of the first internal PV system to conserve resources is just one of many environmental protection measures that fit together like puzzle pieces to turn it into a comprehensive sustainable concept. For example, the switch to LED lighting in the plants has so far resulted in

energy savings of 60%, and the decentralized purchasing of materials (shorter transport routes, lower CO₂ emissions) is just as important as measures to reduce waste or the construction of in-house water treatment plants, which enable around 12,800 tons of condensate to be reused every year.

Combining environmental protection and cost reduction

On the one hand, Haitian is thus supporting the global drive for greater sustainability through the use of green technologies. At the same time, the entire Haitian Group is pursuing the goal of reducing its own production costs through drastic savings in

*In 2023, Haitian International Holdings Limited received an ESG rating of 'BB' from MSCI and a bronze sustainability rating from EcoVadis.



23.6 MWp
total installed capacity

24.57 million kWh
power generation per annum

24,500 tons
CO₂ emission reduction per year

Our plant TongTu Lu II in Ningbo is now fully with solar power systems

energy and resource consumption. Although the issue of sustainability is becoming increasingly important, the topic of energy efficiency has always run like a "green thread" through the history of the machine manufacturer. Demonstrably with success, for example through the development of the significantly energy-efficient drive technology of the worldwide bestseller (Haitian Mars Series, 2006) or through the early development of future-oriented, fully electric machine solutions (Zhafir Venus Series, 2007).

"We care" – the green guiding principle of the Haitian Group is formulated quite modestly, but the potential for successively optimizing energy and resource savings is enormous, simply through the installation of more PV systems. The TongTu Lu II PV System covering a total roof area about 140,600 sqm, will generate 25 million kWh of electricity, resulting in a CO₂ reduction of around 24,500 tons, making it the largest project in Ningbo to date. The project was completed within 3 months. At the South China headquarter, workshop No. 1 was equipped with 36,000 sqm and 62 MWp PV system. As planned, Haitian started the similar BIPV project at Zhafir Ningbo from October 2022 and later at other 3 plants. The total investment would be around RMB 100 Mio, which will generate another 33 million kWh clean energy power for the entire company per year.

First 32.000 sqm of solar power systems in our **Haitian South China Plant**



6.2 MWp
total installed capacity

744 million kWh
power generation per annum

7,440 tons
CO₂ emission reduction per year

HAITIAN WORLDWIDE

2+6
HEADQUARTERS

80
PARTNERS FOR

FOR OVER
30,000

GLOBAL

SALES &
SERVICE

CUSTOMERS

WORLDWIDE CONTACT:

CHINA

ASIA

AMERICA

EUROPE

AFRICA

AUSTRALIA



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